Plant and Soil

International Journal on Plant – Soil Relationships

VOLUME 277 / 2005

Springer
the language of science

Plant and Soil

International Journal on Plant – Soil Relationships

Issued under the auspices of the Royal Netherlands Society of Agricultural Science

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ISSN 0032-079X

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Printed in the Netherlands

PLANT AND SOIL

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Cover Photo: A cultivated field in northwestern India showing unburned and burned rice (*Oryza sativa* L.) straw. After harvesting rice crop, farmers often burn a portion of rice straw to avoid the large accumulation in the field. Burned and unburned rice straw is then getting incorporated into soil prior the sowing of next crop. *Phalaris minor* is a major weed in wheat (*Triticum aestivum* L.) crop. We studied the phytotoxicity of a soil-applied herbicide isoxaflutole to *P. minor* when applied to soil amended with burned or unburned rice straw by measuring its shoot length. Our results indicate that isoxaflutole phytotoxicity to the weed is eliminated when added to soil amended with burned rice straw. We concluded that incorporation of burned rice straw should be avoided when soil-applied herbicides are used for *P. minor* management. *Plant and Soil* Vol 277, pp. 35–40.